Application No.: 10/700195

Docket No.: 05587-00359-US

AMENDMENTS TO THE CLAIMS

- 1. (cancelled)
- (currently amended) The copolymor process as claimed in claim 1 claim 6, wherein x is a whole number from 500 to 10,000.
 - (currently amended) The copolymer as claimed in claim 1 claim 6, wherein said polyoxymethylene blocks also contain structural repeat units of the formula III
 -(C_yH_{2y}-O-)_z (III),

besides the structural repeat units of the formula I, where y is a whole number from 2 to 4, and z is a whole number from 1 to 3.

- 4. (currently amended) The copolymer as claimed in elaim 1 claim 6, wherein R¹ is a

 -(C_mH_{2m}-O-)_r-C_mH_{2m}- radical, m is a whole number from 2 to 4, and r is a whole number from 20 to 1,500.
- 5. (Original) The copolymer as claimed in claim 4, wherein m is 2.
- 6. (currently amended) A process for preparing a copolymer containing 70 to 99% by

 weight based on the copolymer of polyoxymethylene blocks of the structural repeat units

 of the formula I and from 1 to 30% by weight, blocks containing structural units of the

 formula II

[-O-CH₂-]_x (I), [-O-R¹-] (II),

where R¹ is a divalent radical derived from a hydroxy-terminated aliphatic or cycloaliphatic oligomer or polymer which optionally has ether groups and/or carbonyloxy groups in the chain, and

x is a whole number, at least 10

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the copolymer as claimed in claim-1, encompassing the following measures:

(i) forming an initial charge from monomers which form -O-CH₂- units together with monomers of the formula V

where R¹ is as defined in claim 1 above, together with a catalyst usually used for polymerizing the monomers forming the -O-CH₂- units, and optionally together with a solvent, and/or with regulators, and

- (ii) carrying out the copolymerization at a temperature of from 120 to 300°C and at a pressure of from 2 to 500 bar.
- 7. (Previously presented) The process as claimed in claim 6, wherein the resultant block copolymer is treated, after the preparation, with water and/or with a water-soluble alcohol at from 30 to 100°C.
- 8. (Cancelled)
- 9. (currently amended) The copolymer as claimed in elaim 1 claim 6, wherein x is a whole number from 1,500 to 5,000.
- 10. (currently amended) The copolymer as claimed in claim 1 claim 6, wherein R¹ is a -(C_mH_{2m}-O-)_r-C_mH_{2m}- radical, m is a whole number from 2 to 4, and r is a whole number from 50 to 1,000.
- 11. (Previously presented) The process as claimed in claim 6, wherein the resultant block copolymer is treated, after the preparation, with water and/or with a water-soluble alcohol at from 50 to 80°C.

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12. cancelled

- 13. (currently amended) The copolymer as claimed in elaim 1 claim 6, wherein said blocks composed of homo- or copolyoxymethylenes in the copolymer of the formula I is from 80 to 95% by weight, and the proportion of structural repeat units of the formula II is from 5 to 20% by weight, based on the copolymer.
 - 14. (currently amended)) The copolymer as claimed in elaim-1 claim 6, wherein said polyoxymethylene blocks are prepared by reacting trioxane with a cyclic ether and with a third monomer of the formula

$$R^2$$
-CH₂-Z-CH₂-- R^2 -,

where R² and R², independently of one another, are radicals of the formula IVa, IVb, or IVc

wherein Z is a chemical bond, -O--, or -O-- R^3 --O--and R^3 is C_2 - C_8 -alkylene or C_2 - C_8 -cycloalkylene.

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15. (currently amended) The copolymer as claimed in eleim-1 claim 6, which further contains from 0.1 to 20 mol %, based on the copolymer block, of co-components which are derived from ethylene oxide, propylene 1,2-oxide, butylene 1,2-oxide, butylene 1,3-oxide, 1,3-dioxane, 1,3-dioxane, and 1,3-dioxepan.

- 16. (currently amended) The copolymer as claimed in elaim 1 claim 6, which further contains from 0.5 to 10 mol %, based on the copolymer block, of co-components which are derived from ethylene oxide, propylene 1,2-oxide, butylene 1,2-oxide, butylene 1,3-oxide, 1,3-dioxane, 1,3-dioxane, and 1,3-dioxepan.
- 17. (currently amended) The copolymer as claimed in elaim 1 claim 6, wherein the formula I is present in an amount from at least 80% by weight.
 - 18. (currently amended) The copolymer as claimed in elaim 1 claim 6, wherein the formula I is present in an amount from at least 90% by weight.